

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | | |
|---------------|--|----------------|--------------|
| Applicant(s): | A. Arning et al. | Examiner | Leslie Wong |
| Serial No. | 09/747,515 | Group Art Unit | 2167 |
| Filed | December 21, 2000 | Docket No. | STL000011US2 |
| TITLE | USING AN INDEX TO ACCESS A SUBJECT MULTI-DIMENSIONAL DATABASE | | |

CERTIFICATE UNDER 37 CFR 1.8:

hereby certify that this correspondence is being transmitted through the USPTO EFS-Web system over the Internet to the U.S. Patent and Trademark Office on July 26, 2006.

_____/Janaki K. Davda/

Janaki K. Davda

APPLICATION FOR PATENT TERM ADJUSTMENT UNDER 37 C.F.R. 1.705(b)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir/Madame:

Applicants believe that the Determination of Patent Term Adjustment under 35 U.S.C. 154(b) mailed on June 14, 2006 is incorrect. The Determination of Patent Term Adjustment under 35 U.S.C. 154(b) indicates that the Patent Term Adjustment is 158 days.

Applicants believe that the correct Patent Term Adjustment should be 164 days.

In particular, on January 5, 2005, applicants filed, via facsimile, a response to an Office Action mailed on October 6, 2004. Thus, applicants filed the response within three months from the mailing date of the Office Action. Applicants received an Auto-Reply Facsimile Transmission from the USPTO indicating that the response was received by the USPTO on January 5, 2005. *Applicants are attaching a copy of the Auto-Reply Facsimile Transmission and filed response.* However, PAIR shows that the response was received on January 12, 2005 at the USPTO. Therefore, the Patent Term Adjustment incorrectly attributes 6 days to Applicant delay associated with the January 12, 2005 filing. *Applicants are attaching a copy of the Patent Term Adjustment History from PAIR.* There were no circumstances constituting a failure to engage in

reasonable efforts to conclude processing or examination of such application with respect to the response to the Office Action mailed on October 6, 2005.

The patent application is not subject to a terminal disclaimer.

Applicants respectfully request correction of the Patent Term Adjustment.

Please charge the required fee set forth in 37 C.F.R. 1.18(e) of \$200.00 Deposit Account No. 09-0460.

The attorney of record invites the Examiner to contact her at (310) 553-7973 if the Examiner believes such contact would advance the prosecution of the case.

Dated: July 26, 2006

By:____/Janaki K. Davda/_____

Janaki K. Davda
Registration No. 40,684

Please direct all correspondences to:

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315 South Beverly Drive, Ste. 210
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01/05/2005 15:48 3105567984 KONRAD RAYNES VICTOR PAGE 01/15

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FROM: Jenaki K. Davis

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TELEPHONE: 310-556-7983

Total pages, including cover letter: 15

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Applicant: A. Amine et al.
Serial No.: 09/747,515
Filed: December 21, 2000
Group Art Unit: 2167
Docket No.: STL000011US2

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Name: Jenaki K. Davis

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Description of Documents Transmitted: AMENDMENT

Applicant: A. Arning et al.

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Serial No.: 09/747,515
Filed: December 21, 2000
Group Art Unit: 2167
Docket No.: STL000011US2

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on January 5, 2005

By: 

Name: Janaki K. Davda

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

A. Arning et al.

Serial No.: 09/747,515

Filed: December 21, 2000

For: USING AN INDEX TO ACCESS A
SUBJECT MULTI-DIMENSIONAL
DATABASE

Examiner: Leslie Wong

Art Unit: 2167



Sir:

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| INDEP CLAIMS | 6 | MINUS | 6 | = | 0 | x | \$0 | OR | x 200 | \$0 | |
| ____ FIRST PRESENTATION OF MULTIPLE DEP. CLAIM | | | | | | + | \$ | OR | + 360 | \$ | |
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☒ Any filing fees under 37 CFR 1.16 for the presentation of extra claims.

☒ Any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

Dated: January 5, 2005

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Janaki K. Davda

Date

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In re Application of:

A. Arming et al.

Serial No.: 09/747,515

Filed: December 21, 2000

For: USING AN INDEX TO ACCESS A
SUBJECT MULTI-DIMENSIONAL
DATABASE

Examiner: Leslie Wong

Art Unit: 2167



24033

PATENT TRADEMARK OFFICE

Sir:

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| TOTAL | 33 | MINUS | 54 | = | 0 | x | \$0 | OR | x 50 | \$0 | |
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Dated: January 5, 2005

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| Serial No.: | 09/747,515 | Group Art Unit: | 2167 |
| Filed: | December 21, 2000 | Docket No.: | STL000011US2 |
| TITLE: | USING AN INDEX TO ACCESS A SUBJECT MULTI-DIMENSIONAL DATABASE | | |

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Janaki K. Davda

AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Examiner:

Amendments to the Claims are reflected in the listing of claims which begins on page 2.

Remarks/Arguments begin on page 8.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

55. (Currently Amended) A method of accessing a subject multi-dimensional database stored on a data store connected to a computer, comprising:
receiving an indication of a number of features of said subject multi-dimensional database to be identified and an indication of a feature identification technique;
performing feature identification to identify the indicated number of features using the indicated feature identification technique; and
creating an index for the subject multi-dimensional database using the identified number of features.

56. (Previously Presented) The method of claim 55, wherein creating the index comprises creating a multi-dimensional database that is derived from the subject multi-dimensional database.

57. (Previously Presented) The method of claim 55, wherein receiving the number of features to be identified comprises receiving a parameter value.

58. (Previously Presented) The method of claim 55, wherein performing feature identification comprises generating an ordered list of multi-dimensional points.

59. (Previously Presented) The method of claim 58, further comprising creating the index using the list of multi-dimensional points.

60. (Previously Presented) The method of claim 55, wherein creating the index comprises storing deviation values for each of the identified number of features.

61. (Currently Amended) An apparatus for accessing a subject multi-dimensional database, comprising:

a computer having a data store coupled thereto, wherein the data store stores a subject multi-dimensional database; and,

one or more computer programs, performed by the computer, for receiving an indication of a number of features to be identified and an indication of a feature identification technique, performing feature identification on the multi-dimensional database to identify the indicated number of features using the indicated feature identification technique, and creating an index for the subject multi-dimensional database using the identified number of features.

62. (Original) The apparatus of claim 61, wherein the index comprises a multi-dimensional database that is derived from the subject multi-dimensional database.

63. (Original) The apparatus of claim 61, wherein the number of features to be identified is received as a parameter value.

64. (Original) The apparatus of claim 61, wherein feature identification comprises generating an ordered list of multi-dimensional points.

65. (Previously Presented) The apparatus of claim 64, further comprising creating the index using the list of multi-dimensional points.

66. (Original) The apparatus of claim 61, wherein the index stores deviation values for each of the identified number of features.

67. (Currently Amended) An article of manufacture comprising a program storage medium readable by a computer and embodying one or more instructions executable by the computer to access a subject multi-dimensional database stored on a data store connected to the computer, comprising:

receiving an indication of a number of features to be identified in said multi-dimensional database and an indication of a feature identification technique;

performing feature identification to identify the indicated number of features using the indicated feature identification technique; and

creating an index for the subject multi-dimensional database using the identified number of features.

68. (Original) The article of manufacture of claim 67, wherein the index comprises a multi-dimensional database that is derived from the subject multi-dimensional database.

69. (Original) The article of manufacture of claim 67, wherein the number of features to be identified is received as a parameter value.

70. (Original) The article of manufacture of claim 67, wherein feature identification comprises generating an ordered list of multi-dimensional points.

71. (Previously Presented) The article of manufacture of claim 70, further comprising creating the index using the list of multi-dimensional points.

72. (Original) The article of manufacture of claim 67, wherein the index stores deviation values for each of the identified number of features.

73. (Previously Presented) A method of accessing a subject multi-dimensional database stored on a data store connected to a computer, comprising:
receiving an indication of a number of features of said subject multi-dimensional database to be identified;
performing feature identification to identify the indicated number of features; and
creating an index for the subject multi-dimensional database using the identified number of features, wherein the index comprises a second multi-dimensional database that is derived from the subject multi-dimensional database.

74. (Previously Presented) The method of claim 73, wherein receiving the number of features to be identified comprises receiving a parameter value.

75. (Previously Presented) The method of claim 73, wherein performing feature identification comprises generating an ordered list of multi-dimensional points.

76. (Previously Presented) The method of claim 75, further comprising creating the index using the list of multi-dimensional points.

77. (Previously Presented) The method of claim 73, wherein creating the index comprises storing deviation values for each of the identified number of features.

78. (Previously Presented) An apparatus for accessing a subject multi-dimensional database, comprising:
a computer having a data store coupled thereto, wherein the data store stores a subject multi-dimensional database; and,
one or more computer programs, performed by the computer, for receiving an indication of a number of features to be identified, performing feature identification on the

multi-dimensional database to identify the indicated number of features, and creating an index for the subject multi-dimensional database using the identified number of features, wherein the index comprises a second multi-dimensional database that is derived from the subject multi-dimensional database.

79. (Previously Presented) The apparatus of claim 78, wherein the number of features to be identified is received as a parameter value.

80. (Previously Presented) The apparatus of claim 78, wherein feature identification comprises generating an ordered list of multi-dimensional points.

81. (Previously Presented) The apparatus of claim 80, further comprising creating the index using the list of multi-dimensional points.

82. (Previously Presented) The apparatus of claim 78, wherein the index stores deviation values for each of the identified number of features.

83. (Previously Presented) An article of manufacture comprising a program storage medium readable by a computer and embodying one or more instructions executable by the computer to access a subject multi-dimensional database stored on a data store connected to the computer, comprising:

receiving an indication of a number of features to be identified in said multi-dimensional database;

performing feature identification to identify the indicated number of features; and

creating an index for the subject multi-dimensional database using the identified number of features, wherein the index comprises a second multi-dimensional database that is derived from the subject multi-dimensional database.

84. (Previously Presented) The article of manufacture of claim 83, wherein the number of features to be identified is received as a parameter value.

85. (Previously Presented) The article of manufacture of claim 83, wherein feature identification comprises generating an ordered list of multi-dimensional points.

86. (Previously Presented) The article of manufacture of claim 85, further comprising creating the index using the list of multi-dimensional points.

87. (Previously Presented) The article of manufacture of claim 83, wherein the index stores deviation values for each of the identified number of features.

REMARKS/ARGUMENTS

Claims 55-87 are pending in the application. Claims 55, 61, and 67 have been amended. Reconsideration is respectfully requested. Applicants submit that the pending claims 55-87 are patentable over the art of record and allowance is respectfully requested of claims 55-87.

In paragraph 4, the Office Action rejects claims 55-59, 61-65, and 67-71 under 35 U.S.C. §103(a) as being unpatentable over Chen et al. (U.S. Patent No. 5,727,199) in view of Ho et al. (Range Queries in OLAP Data Cubes). Applicants traverse these rejections for the following reasons.

Claims 55, 61, and 67 describe receiving an indication of a number of features of said subject multi-dimensional database to be identified and an indication of a feature identification technique (e.g., Specification, page 12, line 10-page 13, line 2), performing feature identification to identify the indicated number of features using the indicated feature identification technique (e.g., Specification, page 12, line 10-page 13, line 2), and creating an index for the subject multi-dimensional database using the identified number of features.

The Chen patent describes a first phase, called a feature identification phase, that identifies features, which have good power in separating data tuples, based on a subset of the training set (Abstract). In a second phase, called the feature combination phase, the identified features are evaluated in combination against the entire training set to determine final classification rules (Abstract). At Col. 2, lines 26-30, the Chen patent describes that the invention is for database mining, wherein the operations of multi-feature extraction and development of classification rules from a large training database are performed more efficiently than previously known. At Col. 2, line 60 - Col. 3, line 6, the Chen patent describes first evaluating each feature in a subset of the training set as a function of its correlation with a group identifier, and identifying those features, evaluated as having an ID score exceeding a predetermined ID threshold, and, second, combining identified features into feature pairs and evaluating each feature pair in the training set as a function of its correlation with any one of the

group identifiers, and identifying those feature pairs having a combination score which exceeds a predetermined feature combination threshold, and classifying the database as a function of the identified features and the identified feature pair. Thus, the features of the Chen patent are used to classify the database and are not used to create an index.

Moreover, the claimed subject matter receives an indication of a feature identification technique and performs feature identification to identify the indicated number of features using the indicated feature identification technique. Thus, any one of many feature identification techniques may be used with Applicants' claimed invention. The specific feature identification technique used in the Chen patent teaches away from receiving an indication of a feature identification technique and using that indicated feature identification technique.

The Ho reference presents fast algorithms for range queries for two types of aggregation operations: SUM and MAX (Abstract). Because the Chen patent uses features for classifying a database (rather than to build an index), there is no motivation to combine the Chen patent with the Ho reference. However, even if combined, the combination does not result in Applicants' claimed invention.

The Ho reference merely describes that a multidimensional database is indexed by the values of d functional attributes. There is no teaching or suggestion in the Ho reference of receiving an indication of a feature identification technique and using that indicated feature identification technique.

Therefore, claims 55, 61, and 67 are not taught or suggested by the Chen patent or the Ho reference, either alone or in combination.

Dependent claims 56-59, 62-65, and 68-71 incorporate the language of independent claims 55, 61, or 67, respectively, and add additional novel elements. Therefore, dependent claims 56-59, 62-65, and 68-71 are not taught or suggested by the Chen patent or the Ho reference, either alone or in combination, for at least the same reasons as were discussed with respect to claims 55, 61, and 67.

In paragraph 5, the Office Action rejects claims 60, 66, and 72 under 35 U.S.C. §103(a) as being unpatentable over Chen et al. (U.S. Patent No. 5,727,199) in view of Ho et al. (Range Queries in OLAP Data Cubes) and in further view of Agrawal et al. (U.S. Patent No. 6,094,651). Applicants traverse these rejections for the following reasons.

Claims 60, 66, and 72 describe that creating the index comprises storing deviation values for each of the identified number of features.

The Agrawal patent describes locating data anomalies in a k-dimensional data cube that includes the steps of associating a surprise value with each cell of a data cube, and indicating a data anomaly when the surprise value associated with a cell exceeds a predetermined exception threshold (Abstract).

The Agrawal patent does not describe the claimed index. Furthermore, the Agrawal patent does not cure the deficiencies of the Chen patent and the Ho reference in that the Agrawal patent does not teach or suggest receiving an indication of a feature identification technique and using that indicated feature identification technique.

In paragraph 6, the Office Action rejects claims 73-76, 78-81, and 83-86 under 35 U.S.C. §103(a) as being unpatentable over Chen et al. (U.S. Patent No. 5,727,199) in view of Ho et al. (Range Queries in OLAP Data Cubes) and in further view of Information Builders Inc. Applicants traverse these rejections for the following reasons.

As discussed above, the Chen patent does not use features to build an index and the Ho reference merely states that a multi-dimensional database is indexed by the values of *d* functional attributes. Also, the Office Action submits that the Chen patent and the Agrawal patent (which Applicants assume should be the Ho reference as this was cited in the rejection) do not teach that the index comprises a second multi-dimensional database that is derived from the subject multi-dimensional database. The Office Action submits that the Information Builders, Inc. reference teaches this. Applicants respectfully traverse.

The Information Builders, Inc. reference describes that an index is separate from data and describe that Information Builders, Inc. provides a multi-dimensional database that serves as a front end for relational and legacy databases. The mere mention of an index does not teach or suggest that the index is a multi-dimensional database.

Therefore, claims 73, 78, and 83 are not taught or suggested by the Chen patent, the Ho reference or the Information Builders, Inc. reference, either alone or in combination.

Dependent claims 74-76, 79-81, and 84-86 incorporate the language of independent claims 73, 78, and 83, respectively, and add additional novel elements. Therefore, dependent claims 74-76, 79-81, and 84-86 are not taught or suggested by the Chen patent, the Ho reference or the Information Builders, Inc. reference, either alone or in combination, for at least the same reasons as were discussed with respect to claims 73, 78, and 83.

In paragraph 7, the Office Action rejects claims 77, 82, and 87 under 35 U.S.C. §103(a) as being unpatentable over Chen et al. (U.S. Patent No. 5,727,199) in view of Ho et al. (Range Queries in OLAP Data Cubes) and Information Builders Inc. and in further view of Agrawal et al. (U.S. Patent No. 6,094,651). Applicants traverse these rejections for the following reasons.

Claims 77, 82, and 87 describe that creating the index comprises storing deviation values for each of the identified number of features. The Office Action submits that the Chen patent, the Agrawal patent (which Applicants assume should be the Ho reference as this was cited in the rejection), and the Information Builders, Inc. reference do not teach that creating the index comprises storing deviation values for each of the identified number of features. However, the Office Action submits that the Agrawal patent teaches this. Applicants respectfully traverse. The Agrawal patent does not describe the claimed index that is a multidimensional database. Thus, the Agrawal patent does not cure the deficiencies of the Chen patent, the Ho reference, and the Information Builders, Inc. reference.

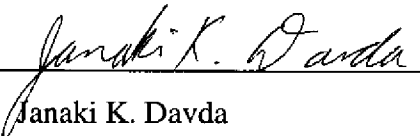
Therefore, claims 77, 82, and 87 are not taught or suggested by the Chen patent, the Ho reference, the Information Builders, Inc. reference or the Agrawal patent, either alone or in combination.

Conclusion

For all the above reasons, Applicants submit that the pending claims 55-87 are patentable over the art of record. Applicants have not added any claims. Nonetheless, should any additional fees be required, please charge Deposit Account No. 09-0460.

The attorney of record invites the Examiner to contact her at (310) 553-7973 if the Examiner believes such contact would advance the prosecution of the case.

Dated: January 5, 2005

By: 
Janaki K. Davda
Registration No. 40,684

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| 05-02-2006 | Information Disclosure Statement (IDS) Filed |
| 02-13-2006 | Workflow - Request for RCE - Finish |
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| 03-31-2006 | Date Forwarded to Examiner |
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| 02-10-2005 | Petition Entered |
| 01-20-2006 | Mail Response to 312 Amendment (PTO-271) |
| 01-18-2006 | Response to Amendment under Rule 312 |
| 11-22-2005 | Amendment after Notice of Allowance (Rule 312) |
| 11-09-2005 | Amendment after Notice of Allowance (Rule 312) |
| 12-21-2005 | Application Is Considered Ready for Issue |
| 11-28-2005 | Issue Fee Payment Verified |
| 11-28-2005 | Issue Fee Payment Received |
| 08-29-2005 | Mail Notice of Allowance |
| 08-29-2005 | Mail Examiner Interview Summary (PTOL - 413) |
| 08-24-2005 | Notice of Allowance Data Verification Completed |
| 08-19-2005 | Examiner Interview Summary Record (PTOL - 413) |
| 06-07-2005 | Date Forwarded to Examiner |
| 01-12-2005 | Response after Non-Final Action |
| 03-05-2005 | Correspondence Address Change |
| 03-05-2005 | Correspondence Address Change |
| 03-07-2005 | Change in Power of Attorney (May Include Associate POA) |

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| 01-21-2005 | Mail Examiner Interview Summary (PTOL - 413) |
| 01-14-2005 | Examiner Interview Summary Record (PTOL - 413) |
| 10-06-2004 | Case Docketed to Examiner in GAU |
| 10-06-2004 | Mail Non-Final Rejection |
| 10-01-2004 | Non-Final Rejection |
| 08-11-2004 | IFW TSS Processing by Tech Center Complete |
| 07-14-2004 | Mail Advisory Action (PTOL - 303) |
| 07-14-2004 | Advisory Action (PTOL-303) |
| 06-30-2004 | Information Disclosure Statement (IDS) Filed |
| 06-30-2004 | Reference capture on IDS |
| 07-20-2004 | Date Forwarded to Examiner |
| 06-30-2004 | Request for Continued Examination (RCE) |
| 07-20-2004 | DISPOSAL FOR A RCE/CPA/129 (express abandonment if CP |
| 07-13-2004 | Date Forwarded to Examiner |
| 06-01-2004 | Amendment after Final Rejection |
| 06-30-2004 | Workflow incoming amendment IFW |
| 06-30-2004 | Workflow - Request for RCE - Begin |
| 06-01-2004 | Workflow incoming amendment IFW |
| 04-01-2004 | Mail Final Rejection (PTOL - 326) |
| 04-01-2004 | Final Rejection |
| 01-23-2004 | Date Forwarded to Examiner |
| 01-08-2004 | Response after Non-Final Action |
| 10-06-2003 | Mail Non-Final Rejection |
| 10-01-2003 | Non-Final Rejection |
| 08-29-2003 | Information Disclosure Statement (IDS) Filed |
| 09-17-2003 | Date Forwarded to Examiner |
| 08-29-2003 | Request for Continued Examination (RCE) |
| 09-17-2003 | DISPOSAL FOR A RCE/CPA/129 (express abandonment if CP |
| 08-29-2003 | Workflow - Request for RCE - Begin |
| 08-13-2003 | Mail Advisory Action (PTOL - 303) |
| 08-12-2003 | Advisory Action (PTOL-303) |
| 08-06-2003 | Date Forwarded to Examiner |
| 07-30-2003 | Amendment after Final Rejection |
| 07-29-2003 | Mail Examiner Interview Summary (PTOL - 413) |
| 07-18-2003 | Examiner Interview Summary Record (PTOL - 413) |
| 04-30-2003 | Mail Final Rejection (PTOL - 326) |
| 04-29-2003 | Final Rejection |
| 02-27-2003 | Date Forwarded to Examiner |
| 02-24-2003 | Response after Non-Final Action |
| 11-15-2002 | Mail Non-Final Rejection |
| 11-15-2002 | Non-Final Rejection |
| 09-03-2002 | Incoming Letter Pertaining to the Drawings |
| 09-12-2002 | Date Forwarded to Examiner |
| 09-03-2002 | Response after Non-Final Action |
| 05-29-2002 | Mail Non-Final Rejection |
| 05-24-2002 | Non-Final Rejection |
| 04-25-2002 | Case Docketed to Examiner in GAU |
| 12-21-2000 | Preliminary Amendment |

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| 07-09-2001 | Case Docketed to Examiner in GAU |
| 05-31-2001 | Change in Power of Attorney (May Include Associate POA) |
| 05-31-2001 | Correspondence Address Change |
| 05-31-2001 | Change in Power of Attorney (May Include Associate POA) |
| 01-26-2001 | Application Dispatched from OIPE |
| 01-24-2001 | Correspondence Address Change |
| 01-22-2001 | Correspondence Address Change |
| 01-22-2001 | Correspondence Address Change |
| 01-11-2001 | IFW Scan & PACR Auto Security Review |
| 12-21-2000 | Initial Exam Team nn |

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